Philips Momentum LCD monitor with Ambiglow

Momentum
27" (68.6 cm)
3840 x 2160 (4K UHD)

278M1R

Take console gaming to the next level

Step it up with a Momentum 4K UHD gaming monitor with Ambiglow. Low Input lag offers smooth gaming. HDR gives ultra-crisp and vibrant image quality to get you in the moment.

Design to enhance the senses
- Ambiglow intensifies entertainment with a halo of light
- Enhanced audio with DTS Sound™

Expand your viewing experience
- UltraClear 4K UHD (3840 x 2160) resolution for precision
- SmartImage HDR gives optimal viewing from your HDR content

Features designed for gamers' needs
- Effortlessly smooth gameplay with AMD FreeSync™ technology
- SmartImage game mode optimised for gamers
- 1 ms (MPRT) fast response for crisp images and smooth gameplay
- Low input lag reduces time delay between devices to monitor
- Less eye fatigue with Flicker-Free technology
- Tilt, swivel and height-adjust for an ideal viewing position

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PHILIPS

Highlights

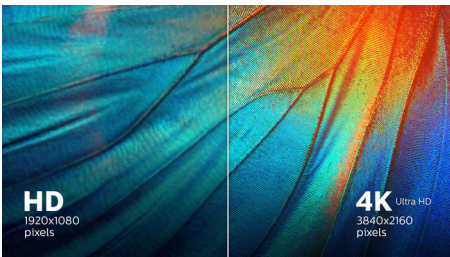## Ambiglow technology

OFF

ambiglow

Ambiglow adds a new dimension to your viewing experience. The innovative Ambiglow technology enhances the content on the screen by creating a halo of light from the monitor. Its fast processor analyses the incoming image content and continuously adapts the colour and brightness of the emitted light to match the image. Especially suited for watching movies, sports or playing games, Philips Ambiglow offers you a unique and immersive viewing experience.

DTS Sound™

DTS Sound is an audio-processing solution designed to optimise the playback of music, movies, streaming and games on the PC regardless of form factors. DTS Sound enables an immersive virtual surround sound experience, complete with rich bass and dialogue enhancement and maximised volume levels free of any clipping or distortion.

UltraClear 4K UHD Resolution

HD
1920x1080
pixels

4K Ultra HD
3840x2160
pixels

These Philips displays utilise high-performance panels to deliver UltraClear, 4K UHD (3840 x 2160) resolution images. Whether you are a demanding professional requiring extremely detailed images for CAD solutions, a user of 3D graphics applications or a financial wizard

working on huge spreadsheets, Philips displays will make your images and graphics come alive.

SmartImage HDR

Select one of SmartImage HDR modes to best suit your needs. HDR Game: optimised for playing video games. With brighter white and darker black, the gaming scene is vivid and reveals more details, easily spot enemies hiding in the dark corners and shadows. HDR Movie: ideal for watching HDR movie. Delivers better contrast and brightness for a more realistic and immersive viewing experience. HDR Photo: enhanced red, green and blue for lively visuals. DisplayHDR: VESA DisplayHDR certified*. Personal: customised settings in picture menu. *Please refer to specification for HDR grade.
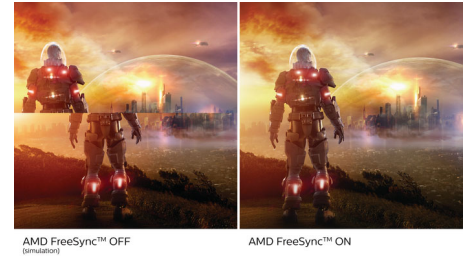
SmartImage Game mode

The new Philips gaming display has quick-access OSD fine-tuned for gamers, offering you multiple options. "FPS" mode (First person shooting) improves dark themes in games, allowing you to see hidden objects in dark areas. "Racing" mode adapts the display with the fastest response time and high colour, along with image adjustments. "RTS" mode (Real-time strategy) has a special SmartFrame mode that enables highlighting of specific area and allows for size and image adjustments. Gamer 1 and Gamer 2 enable you to save personal customised settings based on different games, ensuring best performance.

Ultra-smooth gaming

AMD FreeSync™ OFF
(simulation)

AMD FreeSync™ ON

Gaming shouldn't be a choice between choppy gameplay or broken frames. With the new Philips monitor it doesn't have to be. Get fluid, artefact-free performance at virtually any frame rate with AMD FreeSync™ technology, smooth, quick refresh and ultra-fast response time.

1 ms MPRT fast response

MPRT (motion picture response time) is a more intuitive way to describe response time, which directly refers to the duration between seeing blurry noise and clean, crisp images. The Philips gaming monitor with 1 ms MPRT effectively eliminates smearing and motion blur and delivers sharper and more precise visuals to enhance your gaming experience. The best choice for playing thrilling and twitch-sensitive games.

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Red Dot

Red Dot stands for belonging to the best in design and business
This gaming monitor scores with the striking base, which radiates a solid presence and thereby underlines the quality of the monitor.

ambiglow   dts Sound   4K Ultra HD   HDR   SmartImage™ Game   AMD FreeSync   1ms Fast Response 1 ms MPRT   Low Input Lag   Flicker-free   LowBlue Mode

Specifications

Picture/Display
- LCD panel type: IPS technology
- Backlight type: W-LED system
- Panel Size: 27 inch/68.6 cm
- Display Screen Coating: Anti-Glare, 3H, Haze 25%
- Effective viewing area: 596.736 (H) x 335.664 (V) mm
- Aspect ratio: 16:9
- Maximum resolution: 3840 x 2160 @ 60 Hz*
- Pixel Density: 163 PPI
- Response time (typical): 4 ms (Grey to Grey)*
- MPRT: 1 ms*
- Low Input Lag
- Brightness: 350 cd/m²
- SmartContrast: Mega Infinity DCR
- Contrast ratio (typical): 1000:1
- Pixel pitch: 0.1554 x 0.1554 mm
- Viewing angle: 178° (H)/178° (V), @ C/R > 10
- Flicker-free
- HDR: HDR ready
- Colour gamut (typical): NTSC 91%*, sRGB 105%*, Adobe RGB: 89%*
- Picture enhancement: SmartImage game
- Display colours: 1.07 Billion (8 bits + FRC)
- Scanning Frequency: 30–140 kHz (H) / 23–75 Hz (V)
- SmartUniformity: 93 ~ 105%
- Delta E: < 2 (for sRGB)
- LowBlue Mode
- sRGB
- Ambiglow: 4 sided
- AMD FreeSync™ technology

Connectivity
- Signal Input: HDMI 2.0 x 2, DisplayPort x 1
- USB:: USB-B x 1 (upstream), USB 3.2 x 4 (downstream with 2 fast charge B.C 1.2)
- Audio (In/Out): Headphone out
- Sync Input: Separate Sync

Convenience
- Built-in Speakers: 5 W x 2, DTS Sound
- User convenience: Power On/Off, Menu/OK, Input/Up, Game Settings/Down, SmartImage game/ Back
- OSD Languages: Brazil Portuguese, Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Simplified Chinese, Swedish, Turkish, Traditional Chinese, Ukrainian
- Other convenience: Kensington lock, VESA mount (100 x 100 mm)
- Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 10 / 8.1 / 8 / 7

Stand
- Height adjustment: 130 mm
- Swivel: -/+ 33 degree
- Tilt: -5/20 degree

Power
- On mode: 35.1 W (typ.)
- Standby mode: < 0.5 W (typ.)
- Off mode: < 0.3 W (typ.)
- Energy Label Class: G
- Power LED indicator: Operation - White, Standby mode - White (flashing)
- Power supply: External, 100–240 VAC, 50–60 Hz

Dimensions
- Product with stand (max height): 614 x 567 x 251 mm
- Product without stand (mm): 614 x 370 x 75 mm
- Packaging in mm (W x H x D): 730 x 475 x 224 mm

Weight
- Product with stand (kg): 6.74 kg
- Product without stand (kg): 4.53 kg
- Product with packaging (kg): 9.22 kg

Operating conditions
- Temperature range (operation): 0°C to 40°C °C
- Temperature range (storage): -20°C to 60°C °C
- Relative humidity: 20%-80 %
- Altitude: Operation: +12,000 ft (3658 m), Non-operation: +40,000 ft (12,192 m)
- MTBF: 50 000 (Excluded backlight) hour(s)

Sustainability
- Environmental and energy: RoHS, Mercury Free
- Recyclable packaging material: 100 %

Compliance and standards
- Regulatory Approvals: CB, CE Mark, TUV/ ISO9241-307, TUV-BAUART, CU-EAC, UKRAINIAN, CCC, CEL, CECP

Cabinet
- Colour: Black
- Finish: Textured/Glossy

What's in the box?
- Monitor with stand
- Cables: DP cable, HDMI cable, USB upstream cable, Power cable
- User Documentation

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* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.
* The maximum resolution works for either HDMI input or DP input.
* For best output performance, please always ensure that your graphic card is capable of achieving the maximum resolution and refresh rate of this Philips display.
* Response time value equal to SmartResponse
* MPRT adjusts the brightness for blur reduction, so the brightness cannot be adjusted while MPRT is turned on. To reduce motion blur, the LED backlight will strobe in time with the screen refresh rate, which may cause a noticeable change in brightness.
* MPRT is a gaming-optimised mode. Turning on MPRT may cause noticeable screen flickering. It is recommended to turn this mode off when you are not using the gaming function.
* NTSC Area based on CIE 1976
* sRGB Area based on CIE1931
* Adobe RGB Coverage based on CIE 1976
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* The monitor may look different from feature images.

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